

FIG. 1
PRIOR ART

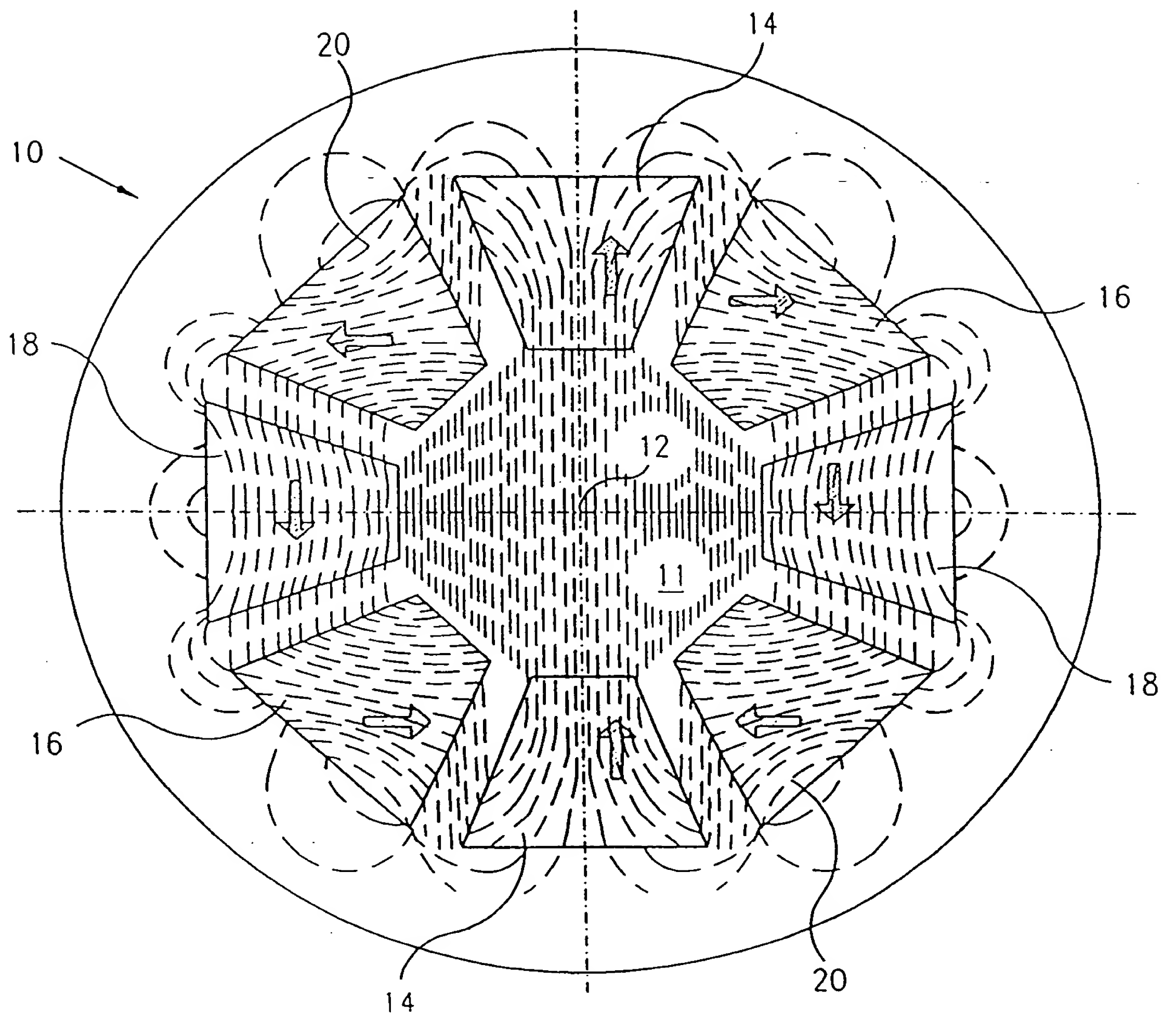


FIG. 10-1109/260

ANSYS 5.6

JUN 29 2000

15:48:46

NODAL SOLUTION

STEP=1

SUB =1

TIME=1

AZ

RSYS=0

SMN =-.0088

SMX =.0088

-.008474

-.007822

-.007171

-.005867

-.005215

-.003911

-.003259

-.001956

-.001304

-.435E-13

.652E-03

.001304

.002607

.003259

.004563

.005215

.006519

.007171

.008474

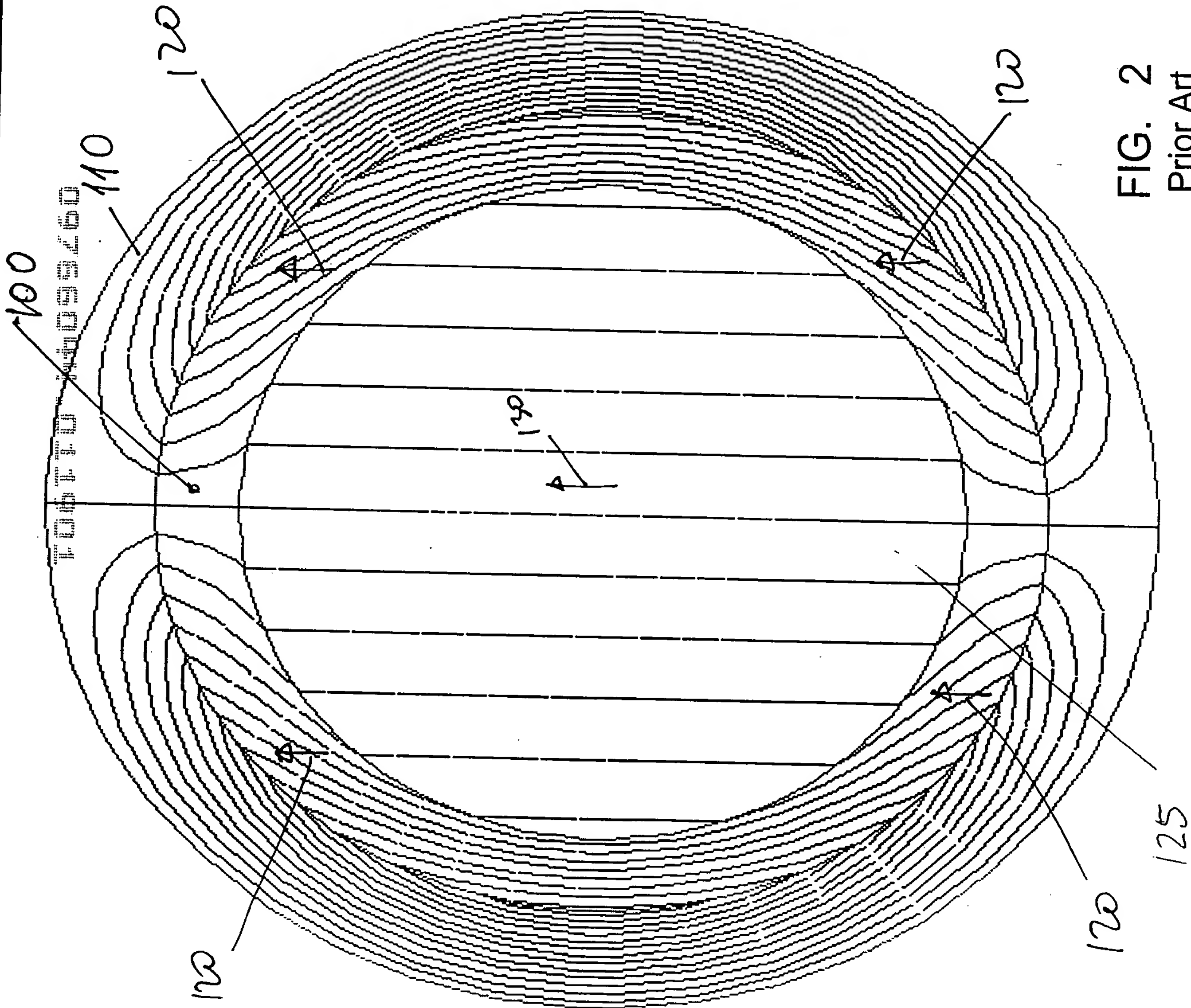
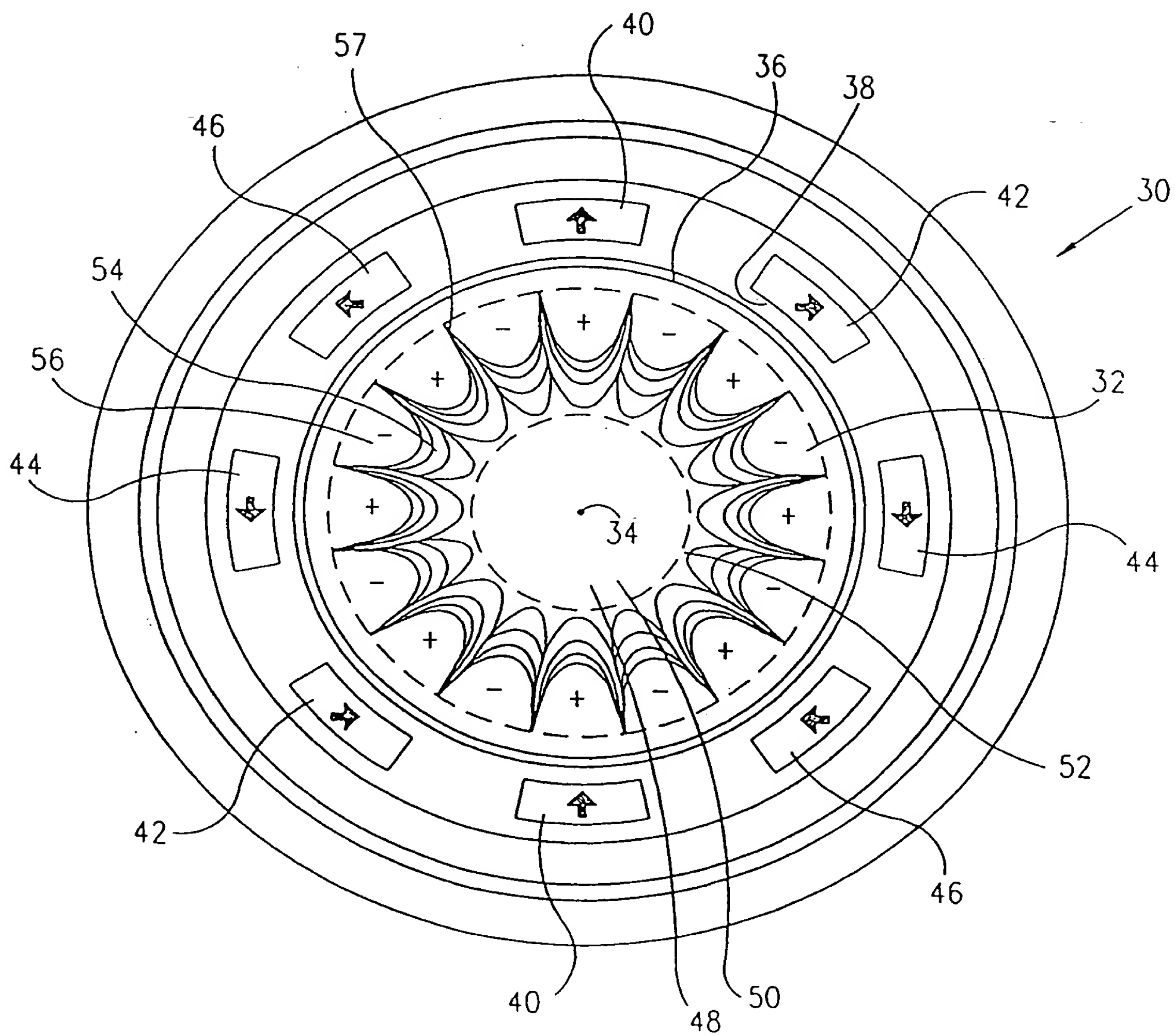


FIG. 3



ANSYS 5.6
 JUN 28 2000
 17:30:32
 NODAL SOLUTION
 STEP=1
 SUB =1
 TIME=1
 BSUM (AVG)
 RSYS=0
 PowerGraphics
 EFACET=1
 AYRES=Mat
 SMN =.257E-04
 SMX =.902715
 A =.091037
 B =.091139
 C =.091241
 D =.091342
 E =.091444
 F =.091544
 H =.091749
 I =.091851

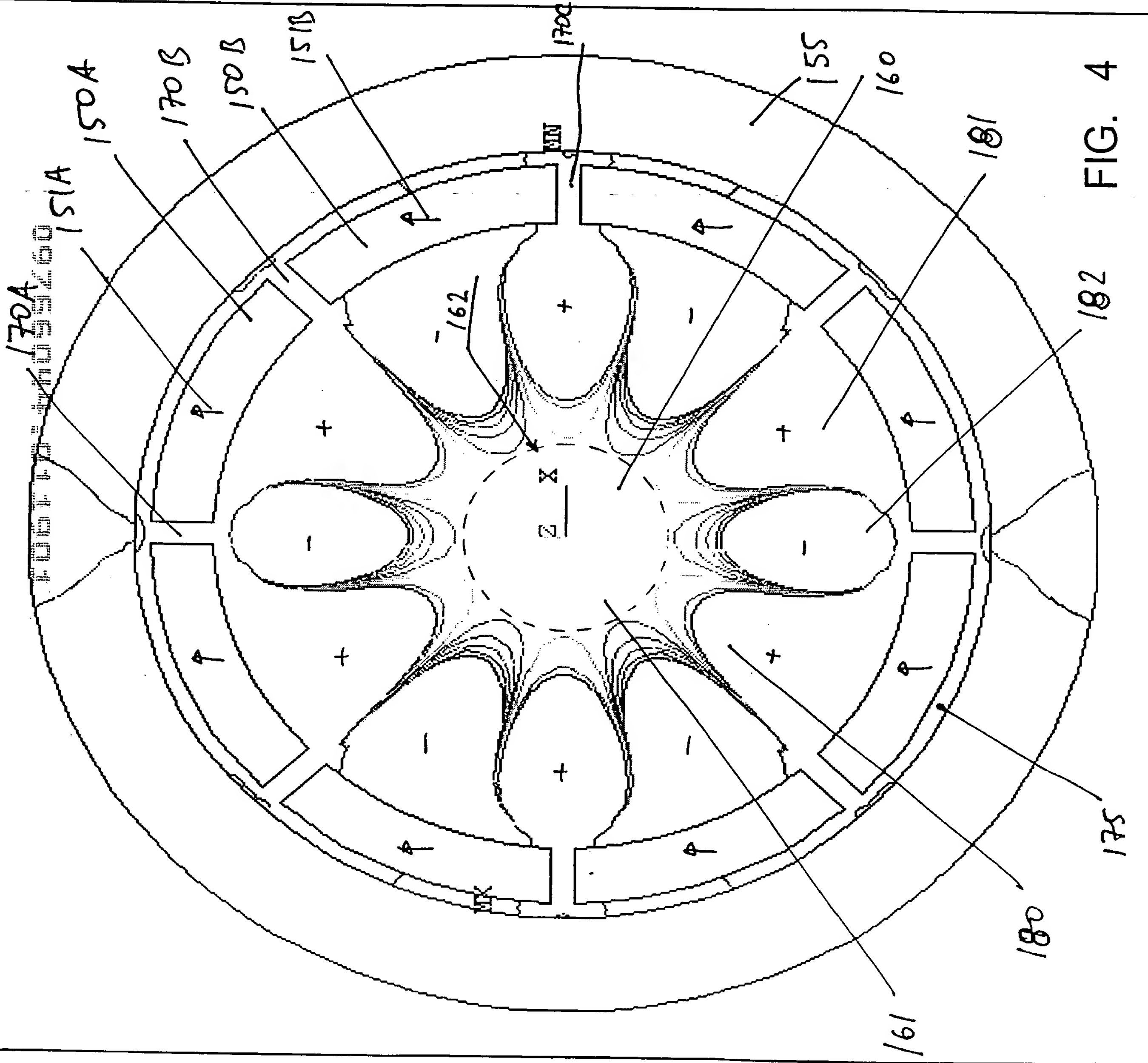


FIG. 4

Gap = 0.08"

FIG. 5

Rsa/IRmag ratio vs. Gap Angle **@ 8 arch-shaped segments**

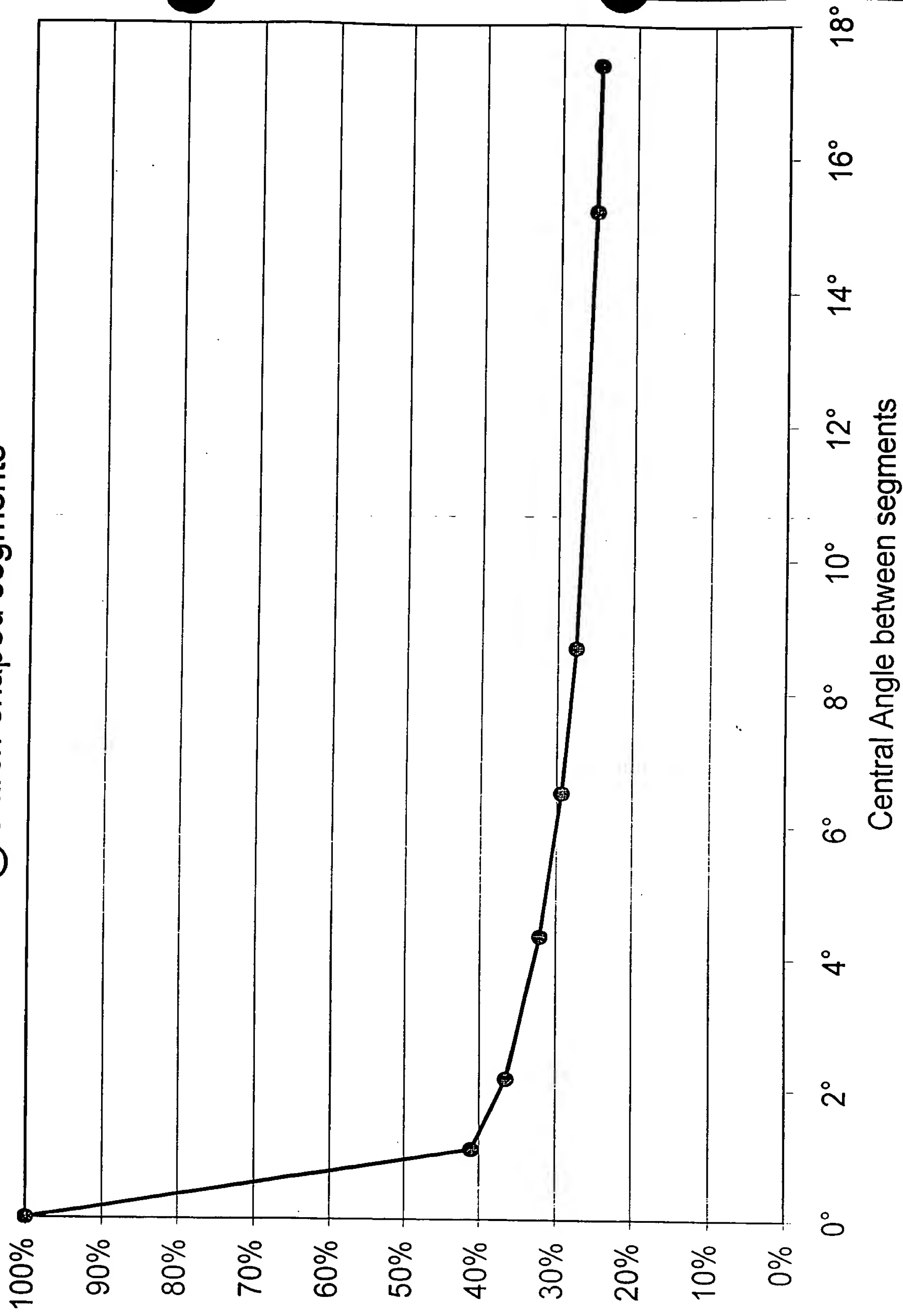


FIG. 5

10610-1109400

**B0/Br ratio vs. Gap Angle
@ 8 arch-shaped segments**

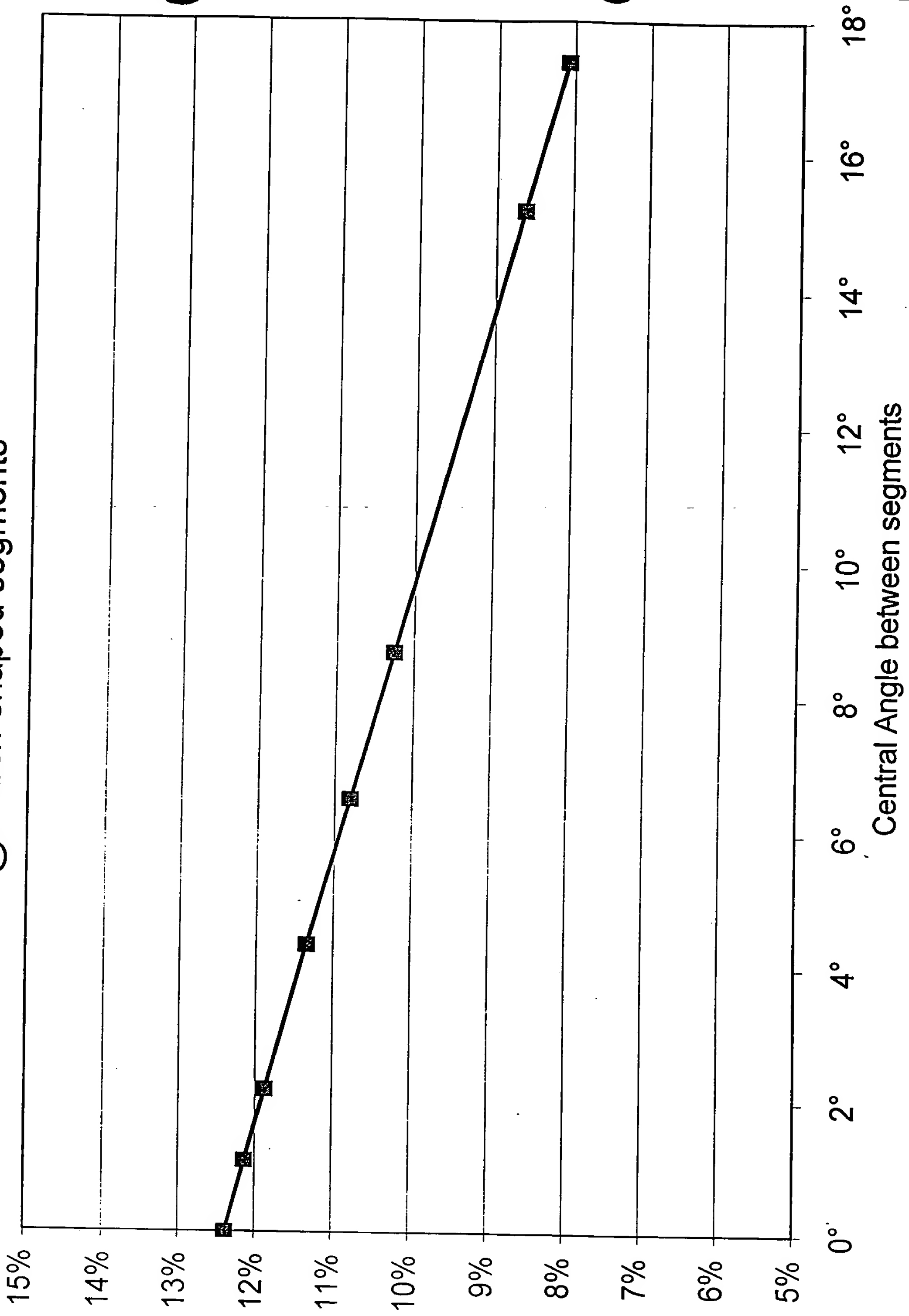
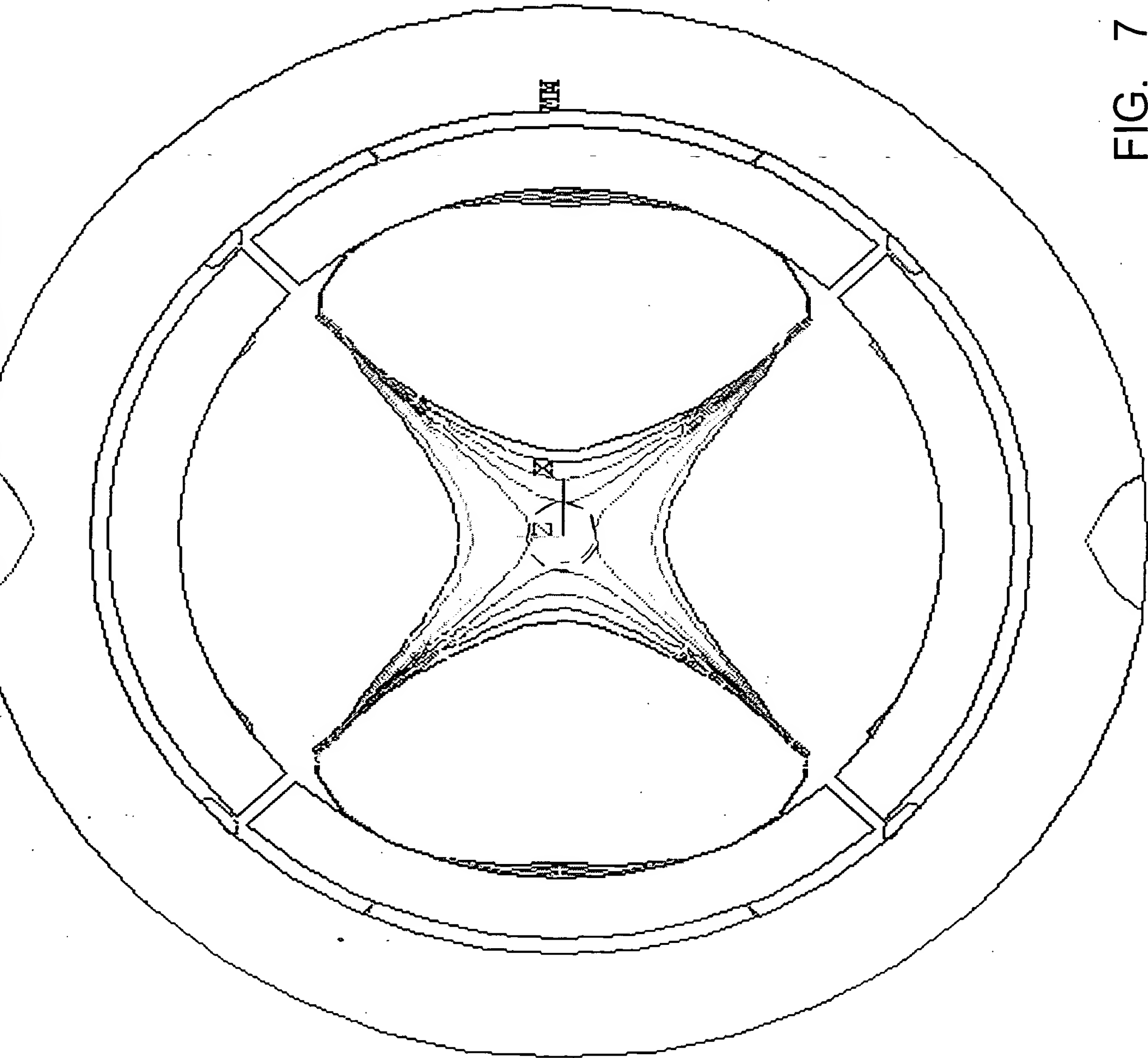


FIG. 6

Plot of the stress



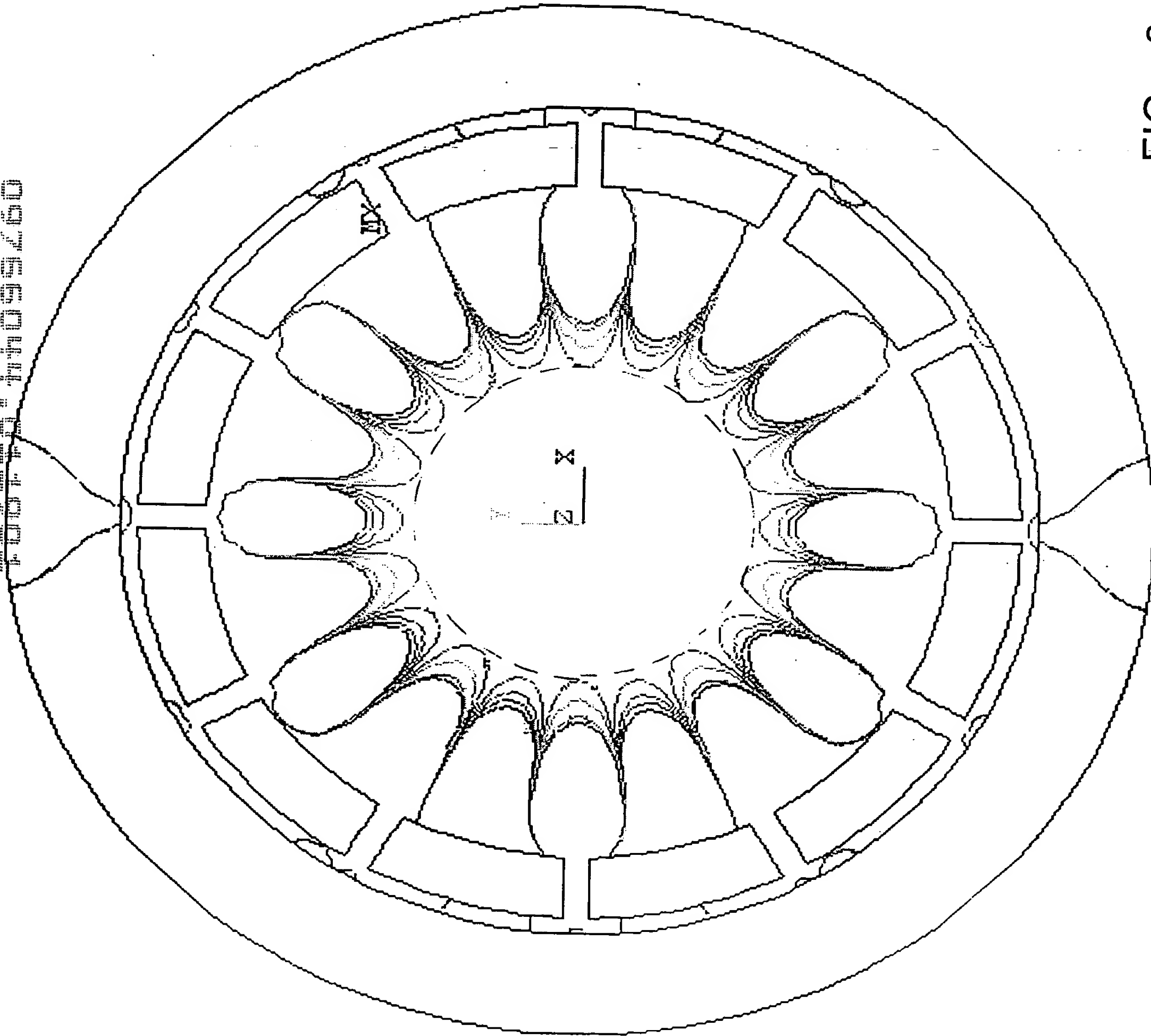
ANSYS 5.6
JUN 29 2000
13:42:09
NODAL SOLUTION
STEP=1
SUB =1
TIME=1
BSUM (AVG)
RSYS=0
PowerGraphics
EFACET=1
AVRES=Mat
SMN =.001784
SMX =.944143
A =.097469
B =.097591
C =.097714
D =.097836
E =.097959
F =.098080
H =.098326
I =.098448

4 segments $\times 45^\circ$
Gap = 0.04"

FIG. 7

11099260

ANSYS 5.6
JUN 29 2000
12:15:29
NODAL SOLUTION
STEP=1
SUB =1
TIME=1
BSUM (AVG)
RSYS=0
PowerGraphics
EFACET=1
AVRES=Mat
SMN =.596E-03
SMX =.899355
A =.08683
B =.08694
C =.087049
D =.087158
E =.087267
F =.087376
H =.087594
I =.087703



12 segments

Gap = 0.08"